

MCAQ Compliance Inspection Checklist – Concrete Plants

Industry Overview: Concrete plants produce a building product composed of water, cement, fine aggregate (e.g. sand), coarse aggregate, and supplementary materials. These plants store, convey, measure, and discharge the constituents into trucks for transport to a job site. There are two (2) main styles of concrete plants – truck mix and central mix. At truck mix plants, the concrete constituents are gravity fed into mixer trucks and the concrete is mixed in transit. At central mix plants, concrete is manufactured in a central mix drum at the facility.

Pollutants of concern: TSP, PM-10, PM-2.5, HAPs, TAPs

Note: Refer to Specific Conditions and Limitations in the permit for additional inspection checkpoints.

Inspection Points	Inspected?		Results and Comments
	Yes	No	
A. VE Observation			
1. Check for stack visible emissions. Perform Method 9 analysis. (Minimum observation time is 10 minutes)			
B. Plant Capacity			
1. Verify maximum plant production capacity – Identify how determined and/or process bottleneck (e.g. raw material conveyor speed, capacity of weigh hopper, truck loading rate, etc.).			
2. Observe truck loading rate – record time to process 1 load.			
3. Verify there are no other processes/equipment on site not listed on the permit.			
C. Truck Loading Area			
1. Check ductwork for routing of controlled emissions.			
2. Check condition of shrouds at truck loading area.			
D. Raw Material Silos			
1. Check for evidence of overfilling.			
2. Check fugitive and/or stack emissions from silo loading/unloading.			
E. Fugitive Emissions			
1. Check fugitive emissions at truck loading.			
2. Check fugitive emissions from haul roads, heavy equipment, etc.			
3. Check fugitive emission capture or control methods/systems.			
4. Check for fugitive emissions leaving site.			
F. Baghouse(s)			
1. Check for concurrent operation of baghouse and concrete production.			

Inspection Points	Inspected?		Results and Comments
	Yes	No	
2. Check monitoring equipment and gauges.			
3. Check pressure drop.			
4. Check inlet gas temperature.			
5. Check operation of bag cleaning equipment.			
6. Check for damage to baghouse (e.g. leaks, holes, etc.).			
7. Check dust collection/containment system.			
8. Verify stack parameters comply with modeled limits - if applicable.			
G. Records Review			
1. Check status of fugitive dust complaints and/or fugitive dust plans.			
2. Check required monitoring, inspection, and maintenance records.			

Notes:

Name / Date